

5 EVOLUTION DIAGRAMS FOR DEBUGGING DISTRIBUTED
 EMBEDDED SOFTWARE APPLICATIONS

Abstract of the Disclosure

- 10 Software development methods and tools are described to generate visual
 representations of a system's behavior over time, called "evolution diagrams," to aid
 in debugging concurrent software systems. The diagrams take advantage of the
 exposure provided by coordination interfaces to present more complete views of
 system executions, explicitly showing events, message traffic between components,
15 etc. The display is presented at a user-selectable hierarchical level of the system
 design, thus enabling a programmer to work at a design layer where the problem or
 its effect is easily recognized.

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